



## TUFFSET 10 / TUFFSET 20

### TRANSMIT SPECIFICATIONS

Microphone: Noise canceling electret  
Sensitivity: -50dB @ 1kHz (defined 1" from talk-side, 82dB SPL)  
Current consumption: 300uA max  
Operating Voltage: DC 1.0V min. to 20V max.

### RECEIVE SPECIFICATIONS

Speaker: Dynamic; 36mm diameter  
SPL: 90db @ 1kHz, 0.55V input  
Impedance: 300 Ohms  
Frequency response: 200Hz to 5 kHz  
Rated input: 10mW continuous, 100mW peak

### MECHANICAL SPECIFICATIONS

Cables: Standard wire, PVC insulation, polyurethane jacket  
Connectors: 4 Pin Quick Disconnect  
Mic boom: Flexible, with positioning memory; swivels 270°  
Mounting: Left or right ear placement  
Headband: Stainless steel, adjustable; ratchet positioning  
Operating Current: 300uA max.  
Operating Voltage: DC 1.0V min. to 20V max.



## TUFFSET 37 CONVERTIBLE

### TRANSMIT SPECIFICATIONS

Microphone: Noise canceling electret  
Impedance: Low. (~300 Ohm)  
Sensitivity: -36 dB / Pa. (=16mV)  
DC current: 0.5 mA. (At 3V/2.2 k.Ohm)

### RECEIVE SPECIFICATIONS

Impedance: 300 Ohm  
Sound Pressure: 96 dB (At 1 k.Hz./ 1mW)  
Frequency response: 300 Hz. To 3400 Hz.  
Sound Pressure Peak Max: 112 dB (Limited by built-in protective circuit)

### MECHANICAL SPECIFICATIONS

Cables: Thin, high flexible and ultra high strength  
4 conductor cable.  
Connectors: 4 Pin Quick Disconnect  
Flexible microphone boom.



## TUFFSET 15 / TUFFSET 25 NOISE ATTENUATING

### TRANSMIT SPECIFICATIONS

Microphone - electret noise canceling  
Frequency response - 200~10KHz  
Impedance: 1.8 k  
Sensitivity: -87dB+5dB AT 1KHz 1.5v  
Current consumption - 400 Microamp/Max  
Operating voltage: 3.0 V  
Test voltage - 1.5 volts

### RECEIVE SPECIFICATIONS

Type - Magnetic type unit  
Voice Coil Impedance - 300ohms  
Sound Pressure Level - 100dB+/-4dB c1kHz  
Impedance (Monaural): 150 Ohms +20% at 1kHz  
Impedance (Binaural): 75 Ohms +20% at 1kHz  
Frequency response: 100 Hz to 6.3 kHz  
Rated Power: 50m

### MECHANICAL SPECIFICATIONS

Cables: polyurethane jacket, PVC resin  
Connectors: 4-pin quick disconnect  
Microphone boom: Highly flexible gooseneck boom  
Headband - Covered stainless steel, adjustable  
Ear cushion - PVC leather  
Weight - (without lower cord) TuffSet 15: 7.2oz TuffSet 25: 11 oz